

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) A component of a plasma processing apparatus, comprising:

a ~~first member~~ graphite backing plate bonded to a ~~second member~~ silicon showerhead electrode, the ~~first member~~ backing plate including a plurality of through apertures having a first portion and a second portion wider than the first portion; and

a plurality of first fastener members each mounted in an aperture of the ~~first member~~ backing plate, each first fastener member including a non-circular shaped head configured to prevent rotation of the first fastener members relative to the ~~first member~~ backing plate, the head having a bearing surface facing a surface that at least partially defines the second portion of the aperture.

2. (Previously Presented) The component of Claim 1, wherein the first fastener members are T-nuts having a T-shape and internal threads.

3. (Previously Presented) The component of Claim 1, wherein the surface that at least partially defines the second portion of the aperture is a second bearing surface and the bearing surface of each of the first fastener members is bonded with an elastomer to the second bearing surface.

4. (Currently Amended) The component of Claim 1, further comprising:
a temperature-controlled top plate on the ~~first member~~ backing plate, adjacent
the first portion of the apertures of the ~~first member~~ backing plate, and including a
plurality of through openings each aligned with a respective aperture in the ~~first~~
~~member~~ backing plate; and

a plurality of second fastener members each engaged with a respective first
fastener member to secure the ~~first member~~ backing plate to the top plate.

5. (Original) The component of Claim 1, wherein each of the first fastener
members comprises a rectangular shaped head.

6-7. (Cancelled)

8. (Currently Amended) The component of Claim 1, wherein the ~~second~~
~~member~~ showerhead electrode comprises an inner silicon electrode and a
segmented outer silicon electrode, and the ~~first member comprises a~~ graphite
backing plate is secured to the inner silicon electrode and a graphite backing ring is
secured to the outer silicon electrode.

9. (Original) The component of Claim 4, wherein (i) each of the first
fastener members comprises internal threads, and each of the second fastener
members comprises external threads engaged with the internal threads of a
respective first fastener member, or (ii) each of the first fastener members comprises

external threads, and each of the second fastener members comprises internal threads engaged with the external threads of a respective first fastener member.

10. (Currently Amended) A component of a plasma processing apparatus, comprising:

a ~~second member~~ showerhead electrode including an attachment surface and an exposed surface adapted to be exposed to an interior of a plasma processing chamber;

a ~~first member~~ backing plate including a first surface spaced from a second surface, the first surface contacting and being bonded to the attachment surface of the ~~second member~~ showerhead electrode, the ~~first member~~ backing plate including axially extending apertures extending between the first surface and the second surface, each of the apertures including a first portion opening in the first surface and a second portion opening in the second surface, the first portion being wider in a transverse direction than the second portion; and

T-nuts having a T-shape located in the second portions of the apertures.

11. (Currently Amended) The component of Claim 10, further comprising:

a ~~third member~~ temperature-controlled top plate adjacent the second surface of the ~~first member~~ backing plate and including through openings aligned with the apertures in the ~~first member~~ backing plate; and

connectors located in the openings, the connectors being detachably engaged with the T-nuts such that the ~~third member~~ top plate is detachable from the ~~first member~~ backing plate.

12. (Cancelled)

13. (Previously Presented) The component of Claim 11, wherein the connectors include external threads.

14. (Previously Presented) The component of Claim 10, wherein the second portions of the apertures comprise at least one load-bearing surface extending in the transverse direction, and the T-nuts comprise at least one surface bonded to the load-bearing surface.

15. (Cancelled)

16. (Currently Amended) The component of Claim 11, wherein the first portions of the apertures are round holes having diameters larger than diameters of openings in the ~~third member~~ top plate.

17. (Previously Presented) A showerhead electrode assembly for a plasma processing apparatus, comprising:

a silicon showerhead electrode having gas injection openings and a plasma exposed surface;

a graphite backing member secured to the silicon showerhead electrode, the backing member including a plurality of through apertures each having a first portion and a second portion wider than the first portion;

a top plate including a plurality of through openings each of which is aligned with a respective aperture in the backing member;

a plurality of T-nuts having a T-shape, each T-nut being mounted in a respective aperture of the backing member, each T-nut including a bearing surface facing a surface at least partially defining the second portion of the apertures; and

a second fastener member engaged with each T-nut to secure the backing member to the top plate.

18. (Previously Presented) The showerhead electrode assembly of Claim 17, wherein the head of each of the T-nuts comprises a bearing surface adhesively bonded to the bearing surface of the aperture.

19. (Previously Presented) The showerhead electrode assembly of Claim 17, wherein the second portion of each aperture is configured to prevent rotation of the T-nut relative to the backing member.

20. (Previously Presented) The showerhead electrode assembly of Claim 17, wherein the silicon showerhead electrode comprises an inner member and a segmented outer member, and the backing member comprises a backing plate secured to the inner member and a backing ring secured to the outer member.

21. (Previously Presented) The showerhead electrode assembly of Claim 17, wherein (i) each of the T-nuts comprises internal threads, and each of the

second fastener members comprises external threads engaged with the internal threads of a respective T-nut.

22-28. (Cancelled)

29. (Previously Presented) The showerhead electrode assembly of Claim 17, wherein the top plate is on the backing member, adjacent the first portion of the apertures of the backing member, and temperature-controlled.

30. (Previously Presented) The showerhead electrode assembly of Claim 17, wherein the backing member comprises a first surface and a second surface opposite the first surface, the first surface is secured to the silicon showerhead electrode and the second surface is secured to the top plate.